

**B. In the Claims**

Please cancel claims 1 to 142 and 154 to 187 without prejudice.

Following are the claims:

Claims 1-142 (cancelled)

143. (original) A functional engineered fluorescent protein whose amino acid sequence is substantially identical to the amino acid sequence of *Aequorea* green fluorescent protein (SEQ ID NO:2) and which differs from SEQ ID NO:2 by

- i) at least one first substitution at position T203, wherein the substitution selected from the group consisting H, Y, W or F, and
- ii) at least one second substitution of position H148, wherein said functional engineered fluorescent protein has a different fluorescent property than *Aequorea* green fluorescent protein.

144. (original) The functional engineered fluorescent protein of claim 143, wherein said at least one second substitution at position H148 is selected from the group consisting of H148R, H148G, H148Q, H148A, H148N, and H148K.

145. (original) The functional engineered fluorescent protein of claim 144, wherein said at least one second substitution at position H148 is H148Q.

146. (original) The functional engineered fluorescent protein of claim 144, wherein said at least one second substitution at position H148 is H148G.

147. (original) The functional engineered fluorescent protein of claim 144, wherein said at least one second substitution at position H148 is H148R.

148. (original) The functional engineered fluorescent protein of claim 143, wherein said functional engineered fluorescent protein further comprises at least one third substitution at position V150.

149. (original) The functional engineered fluorescent protein of claim 148, wherein said at least one third substitution at position V150 is selected from the group consisting of Q, S, T and N.

150. (original) The functional engineered fluorescent protein of claim 143, wherein said functional engineered fluorescent protein further comprises at least one third substitution at position V163.

151. (original) The functional engineered fluorescent protein of claim 150, wherein said at least one third substitution at position V163 is selected from the group consisting of Q, S, T and N.

152. (original) The functional engineered fluorescent protein of claim 143, wherein said functional engineered fluorescent protein further comprises at least one third substitution at position Q69.

153. (original) The functional engineered fluorescent protein of claim 152, wherein said at least one third substitution at position Q69 is selected from the group consisting of N, S, T and V.

Claims 154-187 (cancelled)